Reasoning and Problem Solving
Step 6: Compare and Order Fractions Greater than 1

National Curriculum Objectives:

Mathematics Year 5: (5F3) Compare and order fractions whose denominators are all multiples of the same number

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Use digit cards to complete the statement comparing fractions greater than 1 where the denominators are multiples of the same number (halving and doubling only).
Expected Use digit cards to complete the statement comparing fractions greater than 1 where the denominators are multiples of the same number.
Greater Depth Use digit cards to complete the statement comparing fractions greater than 1 where the denominators have a common factor or common multiples.

Questions 2, 5 and 8 (Reasoning)
Developing Identify and explain a mistake made when comparing and ordering fractions greater than 1 where the denominators are multiples of the same number (halving and doubling only).
Expected Identify and explain a mistake made when comparing and ordering fractions greater than 1 where the denominators are multiples of the same number.
Greater Depth Identify and explain a mistake made when comparing and ordering fractions greater than 1 where the denominators have a common factor or common multiples.

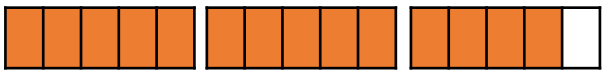
Questions 3, 6 and 9 (Reasoning)
Developing Explain which statement is correct when ordering fractions greater than 1 where the denominators are multiples of the same number (halving and doubling only).
Expected Explain which statement is correct when ordering fractions greater than 1 where the denominators are multiples of the same number.
Greater Depth Explain which statement is correct when ordering fractions greater than 1 where the denominators have a common factor or common multiples.

More Year 5 Fractions resources.

Did you like this resource? Don't forget to review it on our website.

Compare and Order Fractions Greater than 1

1a. Using the clue and digit cards below, complete the statement with improper fractions.

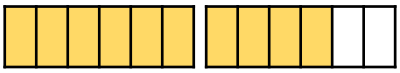


14	5	12	10

$\frac{\square}{\square} > \frac{\square}{\square}$

D PS

1b. Using the clue and digit cards below, complete the statement with improper fractions.

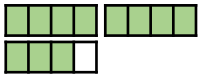
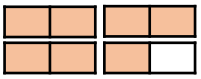
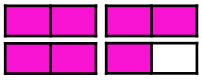
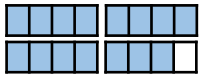


3	26	6	10

$\frac{\square}{\square} < \frac{\square}{\square}$

D PS

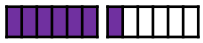
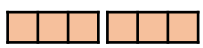
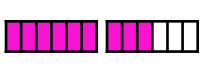
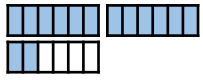
2a. Circle the mistake in the table below.

Less than $2\frac{1}{2}$	More than $2\frac{1}{2}$
$\frac{3}{2}$ 	$\frac{11}{4}$ 
$\frac{7}{4}$ 	$\frac{7}{2}$ 
$\frac{7}{2}$ 	$\frac{13}{4}$ 

D Explain why this is incorrect.

R

2b. Circle the mistake in the table below.

Less than $1\frac{4}{6}$	More than $1\frac{4}{6}$
$\frac{7}{6}$ 	$\frac{8}{6}$ 
$\frac{4}{3}$ 	$\frac{6}{3}$ 
$\frac{9}{6}$ 	$\frac{14}{6}$ 

D Explain why this is incorrect.

R

3a. Two children are ordering fractions.

$\frac{20}{6}$ $\frac{\square}{\square}$ $\frac{13}{3}$

Mo says,

The missing fraction could be $\frac{11}{3}$.

Lily says,

The missing fraction could be $\frac{9}{3}$.

D Who is correct? Convince me.

R

3b. Two children are ordering fractions.

$\frac{18}{8}$ $\frac{\square}{\square}$ $\frac{5}{4}$

Oscar says,

The missing fraction could be $\frac{24}{8}$.

Sadia says,

The missing fraction could be $\frac{14}{8}$.

D Who is correct? Convince me.

R

Compare and Order Fractions Greater than 1

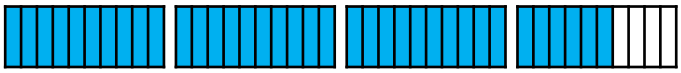
4a. Using the clue and digit cards below, complete the statement with improper fractions.

26	16	6	12

$\frac{\square}{\square} > \frac{\square}{\square}$

E PS

4b. Using the clue and digit cards below, complete the statement with improper fractions.



25	18	95	5

$\frac{\square}{\square} < \frac{\square}{\square}$

E PS

5a. Circle the mistake in the table below.

Less than $4\frac{1}{7}$	More than $4\frac{1}{7}$
$\frac{22}{7}$	$\frac{51}{7}$
$\frac{42}{14}$	$\frac{30}{7}$
$\frac{28}{7}$	$\frac{84}{21}$

E Explain why this is incorrect. R

5b. Circle the mistake in the table below.

Less than $5\frac{5}{6}$	More than $5\frac{5}{6}$
$\frac{58}{12}$	$\frac{39}{6}$
$5\frac{16}{24}$	$6\frac{4}{12}$
$\frac{35}{6}$	$\frac{80}{12}$

E Explain why this is incorrect. R

6a. Two children are ordering fractions.

$\frac{96}{20}$ $\frac{\square}{\square}$ $\frac{37}{5}$

Archie says,

The missing fraction could be $\frac{68}{10}$.

Kaitlin says,

The missing fraction could be $\frac{60}{10}$.

E Who is correct? Convince me. R

6b. Two children are ordering fractions.

$\frac{52}{16}$ $\frac{\square}{\square}$ $\frac{9}{4}$

Imran says,

The missing fraction could be $\frac{15}{8}$.

Bella says,

The missing fraction could be $\frac{20}{8}$.

E Who is correct? Convince me. R

Compare and Order Fractions Greater than 1

7a. Using the clue and digit cards below, complete the statement with improper fractions.

$$\frac{8}{3}$$

6	9	28	24

$$\frac{\square}{\square} > \frac{\square}{\square}$$

GD PS

8a. Circle the mistake in the table below.

Less than $3\frac{6}{15}$	More than $3\frac{6}{15}$
$\frac{36}{10}$	$\frac{63}{15}$
$3\frac{6}{30}$	$3\frac{6}{10}$
$\frac{48}{20}$	$\frac{62}{15}$

GD Explain why this is incorrect. R

9a. Two children are ordering fractions.

$$\frac{31}{12} \quad \frac{\square}{\square} \quad \frac{39}{12}$$

Jason says,

The missing fraction could be $\frac{25}{8}$.

Rachel says,

The missing fraction could be $\frac{28}{8}$.

GD Who is correct? Convince me. R

Compare and Order Fractions Greater than 1

7b. Using the clue and digit cards below, complete the statement with improper fractions.

$$\frac{25}{8}$$

16	50	24	51

$$\frac{\square}{\square} < \frac{\square}{\square}$$

GD PS

8b. Circle the mistake in the table below.

Less than $2\frac{12}{18}$	More than $2\frac{12}{18}$
$\frac{48}{36}$	$2\frac{28}{36}$
$2\frac{1}{3}$	$3\frac{8}{12}$
$\frac{14}{6}$	$\frac{15}{6}$

GD Explain why this is incorrect. R

9b. Two children are ordering fractions.

$$\frac{13}{5} \quad \frac{\square}{\square} \quad \frac{7}{5}$$

Alex says,

The missing fraction could be $\frac{12}{7}$.

Kyra says,

The missing fraction could be $\frac{11}{7}$.

GD Who is correct? Convince me. R

Reasoning and Problem Solving
Compare and Order Fractions
Greater than 1

Developing

1a. $\frac{14}{5} > \frac{12}{10}$

2a. $\frac{7}{2}$ is the mistake because it is equivalent to $3\frac{1}{2}$ which is more than $2\frac{1}{2}$.

3a. Mo is correct because the fractions are ordered from smallest and his fraction ($\frac{11}{3}$) comes in between the two given fractions.

Expected

4a. $\frac{16}{6} > \frac{26}{12}$

5a. $\frac{84}{21}$ is the mistake because it is equivalent to 4 which is less than $4\frac{1}{7}$.

6a. Both children are correct because both of their fractions are greater than $\frac{96}{20}$ and smaller than $\frac{37}{5}$.

Greater Depth

7a. $\frac{28}{6} > \frac{24}{9}$

8a. $\frac{36}{10}$ is the mistake because it is equivalent to $3\frac{9}{15}$ which is more than $3\frac{6}{15}$.

9a. Jason is correct because the fractions are ordered from smallest to largest and his fraction ($\frac{25}{8}$) comes between the two given fractions.

Reasoning and Problem Solving
Compare and Order Fractions
Greater than 1

Developing

1b. $\frac{10}{6} < \frac{26}{3}$

2b. $\frac{8}{6}$ is the mistake because it is equivalent to $1\frac{2}{6}$ which is less than $1\frac{4}{6}$.

3b. Sadia is correct because the fractions are ordered from largest to smallest and her fraction ($\frac{14}{8}$) comes in between the two given fractions.

Expected

4b. $\frac{18}{5} < \frac{95}{25}$

5b. $\frac{35}{6}$ is the mistake because it is equivalent to $5\frac{5}{6}$.

6b. Bella is correct because the fractions are ordered from largest to smallest and her fraction ($\frac{20}{8}$) comes in between the two given fractions.

Greater Depth

7b. $\frac{51}{24} < \frac{50}{16}$

8b. $\frac{15}{6}$ is the mistake because it is equivalent to $2\frac{1}{2}$ which is less than $2\frac{12}{18}$.

9b. Both children are correct because both of their fractions are smaller than and greater than $\frac{7}{5}$.